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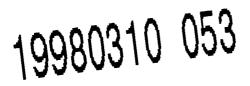
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Low income women experience more morbidity and a shorter survival compared to more affluent women. Yet these women are least likely to avail themselves of screening and early detection testing which has been previously demonstrated to be associated with prolongation of survival for women subsequently diagnosed with breast cancer.

The goal of this project is to increase screening and early detection practices in low income women, forty years and older, who are enrolled in a statewide HMO. It compares the relative effectiveness of two interventions (a simple one using a letter of invitation and a more intensive "step-wise" intervention of two sequential letters and follow-up counseling and home visits). Both interventions are compared with a control group of women who continue to receive their "usual care".

This report gives an account of program planning and process evaluation. The results of the baseline survey across groups are presented. A most significant finding was the difficulty of locating and contacting subjects who were literally "hard-to-reach". Detailed data are provided illustrating the scope of this problem. Baseline survey data analysis is in process and intervention among groups is being initiated.

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Nature of the Problem

Breast cancer is the leading cause of non-skin cancer affecting American women, with a life time expectancy of about 12% for all US women. More then 180,000 cases are expected to develop in 1997 and 46,000 deaths will occur (1). Recently breast cancer has shown a decline in mortality for US women, but while this trend is evident among white women, evidence of a decline is not yet evident for African American females (2). Evidence suggests that this trend is the result of both earlier detection and earlier treatment when localized, and adjunctive treatment of women at high risk for recurrence of their cancer and metastasis after primary treatment.

A number of studies have indicated the usefulness of adjunctive systemic chemo and hormonal therapy for women at risk for breast cancer recurrence (3,4,5). A review of historical cohort trends in breast cancer survival for British Columbia women treated before and after the advent of this type of treatment demonstrated a subsequently decline in breast cancer mortality (6). More recently several studies have documented the further increase in survival of women with breast cancer who are treated with systemic chemotherapy plus radiation therapy above that of adjunctive chemotherapy alone (7,8).

It is estimated that much of the reduction in breast cancer is also due to early detection as evidenced by an increase in minimal and non-invasive to invasive beast cancer ratio, a pattern previously demonstrated for cervical cancer (9). This decline in the ratio of invasive to non-invasive breast cancer has occurred during a period when there has been increased public emphasis upon the use of screening and early detection methods.

Mortality from breast cancer is most preventable when diagnosed at its earliest stages, when it is non-invasive or in the absence of regional spread.

Mammography is the only screening test to be demonstrated by prospective clinical trial to decrease cancer mortality (11-13). Its efficiency and relative safety is well accepted and barriers to its use such as cost and availability are gradually being overcome (14). Although there has been a significant increase in the utilization of mammography in conjunction with clinical breast exam, the technology continues to be underutilized, especially among certain hard-to-reach groups (minority, the poor and elderly women), who consistently participate at lower rates than more affluent white women (15-17).

A lack of adherence to breast cancer screening guidelines is a serious problem for these women because of barriers which seem to relate to their socioeconomic and age status. As a result a number of approaches have been tried in order to overcome related barriers. One strategy recently reported has been to reach women through their health maintenance organization (18,19). In both studies the screening mammography rates increased by using simple interventions. With the advent of health care reform a larger proportion of the American population is expected to be covered by Managed Care Organizations (Health Maintenance Organizations - {HMO}). These organizations offer a unique opportunity to develop novel approaches to the prevention and early detection and treatment of breast cancer. Their advent offers a number of advantages such as: (1) access to large numbers of patients and their records; (2) access to HMO providers health care related databases; and (3) resources for screening and

other preventive health services. The purpose of this project is to demonstrate that the screening behavior of low income women enrolled in a managed care organization can be positively impacted and screening mammography rates can be significantly increased if simple interventions

are employed.

Purpose of Research

Our research is to ultimately reduce the morbidity and mortality of breast cancer among the population of low income women who have incomes less than 200% of the national poverty level. Our strategy is to compare the effectiveness of a relatively simple technique to a more complex intervention to reach and effect a significant change in the behavior of the subjects. We hope that this approach will become a model for similar groups elsewhere.

The goals of this project are twofold:

- (a) To increase breast cancer screening and early detection by mammography in low income women, forty years of age and above, who are enrolled in a statewide HMO-using a culturally sensitive "step-wise" approach; and
- (b) To increase the number of early breast cancers detected at a time when they are most curable and to reduce the number of advanced cancers detected so as ultimately decrease Beast Cancer morbidity and mortality.

Technical Objectives

- 1. To institute a culturally sensitive stepwise intervention to overcome barriers to screening in low income women.
- 2. To compare the stepwise intervention to a more simple intervention.
- 3. To document and evaluate the process and outcome results of various screening approaches used to reach this population.

Hypothesis

The study seeks to test three hypotheses:

- a. H1 A culturally appropriate, step-wise, in-reach intervention which addresses knowledge, attitudinal and logistical barriers will increase mammography utilization in a low-income managed care organization at least 20% over a usual care group from the same HMO.
- b. **H2** An intervention involving a simple reminder letter will increase mammography utilization 10% over a usual care group.
- c. H3 A culturally appropriate, step-wise, in-reach intervention which addresses knowledge, attitudinal and logistical barriers will increase mammography utilization in a low income managed care organization at least 10% over a simple reminder letter.

Methodological Approach

The purpose of this methodologic approach's to overcome screening barriers experienced by low income women. Our research is based upon a useful model of diagnostic, intervention, and evaluation to influence change and enhance health status. This model developed by Michileutie identifies predisposing, enabling and reinforcing factors to primarily influence process outcomes (reaching high risk women, increasing their knowledge, and skills necessary to participate in screening, sensitizing physicians, institutionalizing screening policies, changing negative and neutral attitudes about screening). The project provides knowledge through the interventions thus predisposing them to positive change (intermediate outcome). It is enabling through the provision of increased access by the HMO which provides coverage for the procedure, physician follow-up and transportation. Finally, reinforcement is insured by the provision of counseling and organizational literature for participants (Figure 1).

1. Project Design

This study builds upon two interventions recently reported in the literature using HMO populations. In one study a randomized trial was conducted to evaluate the combined impact of a reminder letter from a personal physician and a telephone contact on the use of Pap-tests and mammograms in low income managed care organization (16). The second study evaluated a stepped intervention involving two reminder letters, a letter from their primary care physician and a telephone counseling session from a health educator (17). The study also builds upon ongoing work by the Meharry investigators who previously demonstrated the effectiveness of a simple intervention of news letters to providers and HMO-signed letters to member-clients (19). The proposed study will use a culturally sensitive intervention providing personal contacts through trained lay health (peer) workers in home visits and small group interactive sessions. The project utilizes a randomized trial.

Evaluation will consist of comparing the comprehensive intervention with the usual care and the simple intervention groups. Comparisons will also be made with results from the previous studies.

2. Study Population

The study population consists of women 40 years and older who are enrolled in the Tennessee Managed Care Network (TMCN) in Nashville Davidson County, Tennessee. TMCN is the second largest of the twelve managed care organizations (MCO) that have contracted with the state of Tennessee to serve as HMO's for the former Medicaid population and the working poor. The state obtained a waiver from the federal government (DHHS) in December 1993 to create TennCare as a demonstration project for five years from January 1, 1994.

The population of women in this age group in Nashville, Davidson County, enrolled in TMCN was found to be 1400 women. Based on numbers from claims records - only 26 percent have had mammograms for all reasons (diagnostic and screening). Therefore, more than 1,000 women are eligible for study (i.e. within the past year for those 50 years and older and within the past 2 years for those 40-49 years old) (14). Screening mammograms are covered benefits under this managed care organization.

3. Research Design

From the medical claims database, have been accessed from the organization's home office in Nashville, computerized medical claims data have been reviewed to identify female enrollees 40 years and older who are eligible for inclusion in the study. Those without a claim for a mammogram in the previous year (for those 50 years old or older) or the previous 2 years (for those 40 to 49 years old) have been randomly assigned into one of three groups. Thus the research design is a randomized trial with three groups (a control group and two intervention groups). Women in one group (control) will receive the usual care only; women in a second group will receive a written reminder, while women in the last group will receive an intensive step-wise intervention designed to overcome real and perceived barriers to screening (See Table 4, illustrations).

Patients are randomized by placing the first three names on the list of enrollees in one of the three groups randomly by the use of random number tables. Thereafter every third name will be added to the corresponding group. For example the first, fourth, and seventh and so on will belong to the same group.

4. Intervention Design

a. Experimental Groups: The three experimental groups are characterized as follows:

(i) Group 1

(Usual Care): Visits physician for health care needs only, does not participate in interventions initiated by this project.

(ii) Group 2

(Simple Intervention): Receives usual care plus a prompter letter stating the need for annual mammograms.

(iii) Group 3

(Comprehensive-Step-Wise Intervention): Receives usual care plus a prompter letter followed by a reminder letter followed by phone calls, then interactive group sessions, then home visits.

b. Intervention Procedures

All experimental groups will have barriers removed to differing extents. All groups will benefit from the resources provided by the MCO. Barriers will be addressed by the intervention program as outlined in Chart 2. How barriers are handled within each experimental group is described below.

(i) Barriers Removed by Usual Care from TMCN

<u>Lack of Knowledge</u>: TMCN distributes a newsletter every month to providers and members. The newsletter features different awareness campaigns at the discretion of the editor.

<u>Access to Services</u>: TMCN provides transportation to members for services, as needed. TMCN also has special training for lay health <u>outreach</u> workers within low income housing projects.

<u>Availability of Services</u>: TMCN stresses to its provider membership that breast cancer prevention and control procedures be instituted for all clients as a part of physical assessment. Lay health outreach workers will facilitate follow-up visits as scheduled by primary care physicians or as needed.

Cost of Services: TMCN reimburses up to \$50 for mammograms.

<u>Culture</u>: TMCN Lay health workers are former welfare recipients recruited form low income projects and undergo a 5-month training program.

Physician Attitudes: These will be affected via TMCN newsletter awareness campaigns.

(ii) Barriers Removed by First Level Experimental Intervention Groups 2 & 3

Lack of Knowledge:

Brochures beyond Newsletter (physician offices, mail out)

Reminder letter

All other barriers addressed by Usual Care (i) above

(iii) Barriers Removed by Intensive Intervention (Group 3)

<u>Lack of Knowledge</u>: Interactive small group sessions

Access to Services:

Distribution of transportation vouchers routinely for visit to providers and for mammograms;

Priority Appointments;

Reminder letters and telephone counseling

<u>Availability of Services</u>: A tracking system to facilitate follow-up visits; combined with reminder letters, telephone calls and home visits.

Culture:

Training lay health outreach workers intensively on cultural sensitivity;

Using familiar sites for special program activities e.g. churches, clinic sites;

Developing culturally-sensitive information at the appropriate literacy levels to overcome culturally-inducted attitudes of fear, inertia, self medication, hopelessness;

Apply individually - appropriate counseling.

Physician Attitudes:

Design special education sessions to improve attitudes

Designing a reminder system for physicians

All other barriers addressed by (ii) above

Results (Interim)

Administrative Process

The project began on schedule with the hiring of research personnel, development of the research planning committee, meeting with officials and technical personnel of Access Med-Plus, the HMO providing subjects.

By the fifth month of the project letters had to be sent to subjects in groups II and III and baseline questionnaires of breast knowledge, attitudes and practices had been submitted to the MCO and State's Board of Tenn Care for their approval.

By month 8 of the program community outreach health workers had been trained to assist in administering questionnaires to a sample of each of the three groups. This was necessitated by the fact that two-thirds of targeted women did not have telephones (telephone numbers were provided to the Tenn Care bureau or the MCO).

The administration of the questionnaire began in month 9 and was planned to continue for two months. However, contacting the subjects has proven to be difficult in a majority of the cases.

We are in the process of completing the baseline survey of a sample of each randomized group of women. The intervention phase will begin in December of 1997.

Problems Encountered

A number of unexpected problems have been encountered in carrying out this project including the following:

- 1. **A smaller study population** the number of subjects available for randomization (1400) was less than one-half of the expected 3,500 population which was planned to be studied. To overcome this problem the broader boundaries of the metropolitan Nashville statistical area encompassing five additional counties were included in order to increase eligible TMNC members.
- 2. Claims data reliability claims data showed that nearly all claims paid had diagnoses for various medical breast conditions rather than "screening". Access Med Plus staff are in the process of verifying the true nature of the tests through follow-up with individual physicians.
- 3. Contact and follow-up difficulties most frustrating is the fact that this population is indeed extremely "hard-to-reach". Problems arise from the fact that only one-third (36%) of member-subjects have telephones listed with the MCO (Table 5). Of these, 20-30 percent have had those phones disconnected and two thirds of the remaining phones were not answered when called (Table 4). To overcome this problem, community Health Outreach Workers were sent to the homes to make contact and complete questionnaires. Even with much effort only

sixty percent of women were contacted by the two methods (telephone and home visits).

Lack of Telephones

As can be seen from Table 5, only 36% of this population of targeted women have telephones listed with their Managed Care Organization (MCO) or with the Tenn Care Bureau. Of these women, only 46% could be reached after three repeat calls. Twenty percent of the telephones had been disconnected. Of the women reached by interviewers, often the proprietor of the phone was a relative, neighbor or a place of employment. Thus only 16% of the targeted population could be reached by telephone.

Home Visits

One hundred and twenty women residing within Davidson County were contacted. Only 28% of subjects were successfully contacted with a questionnaire completed (Table 1). Women who were contacted were usually contacted on the first attempt (Table 2). Domiciles were visited three times before the contact attempt was deemed a failure. In most such instances repeat visits were not useful. Considerable effort was put forth by the interviewers who made a total of 418 visit efforts. The reasons for the failure to make contacts are listed in Table 1 and include: (a) not being at home; (b) moved from the premises; (c) refusal to participate; (d) language barriers, and (e) there was no physical structure at the address in 10 percent of the cases (Tables 1,3,4).

In Summary

From our experience, it is obvious that this population is hard to reach. They move much of the time. Most do not have telephones and some of the addresses are those of relatives, friends and neighbors. In a few instances addresses may even be Post Office Boxes. In spite of the fact that many are at poverty level (Medicaid eligible) socioeconomically, a considerable proportion of these women go out to participate in some gainful activity during week days. To reach these individuals will require special efforts such as staff who will visit at night or on weekends.

Analysis of Surveys

This aspect of the study is presently in progress. Baseline questionnaire measuring knowledge, attitudes and practices across all groups are being analyzed. This will be followed by the intervention phase to begin December 1997.

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Appendices

Figure 1	Disease Prevention & Health Promotion Model
Figure 2	Research Process Activities
Table 1	Survey Effort Summary
Table 2	Total Completed Surveys
Table 3	Total Unsuccessful Attempts
Table 4	Survey Activity / Effort Per Woman
Table 5	Telephone Contacts

Figure 1

Disease Prevention, Health Promotion Intervention Model

PREDISPOSING FACTORS

Knowldedge Beliefs; value

ENABLING FACTORS

Access to care, skills; decision-making authority at personal and community levels.

servies, increasing knowledge skills and beliefs important for

health promotion & disease

prevention.

increased use of appropriate

Accessing target population;

PROCESS OUTCOMES:

INTERMEDIARY OUTCOMES: HEALTH BEHAVIORS:

 Smoking cessation; satuarated fat intake; weight control; compliance with treatment.

HEALTH OUTCOME

Decreased cardiovascular

▶ mortality, decreased deaths from cancer.

REINFORCING FACTORS Incentives & rewards for health promotion behaviors; social support from provider, family, peer feedback; environmental support for health behaviors.

Figure 2

Research Process Activities Accomplished

- Hiring Research Support Staff
- Organizing Research Planning Committee
- Meeting with Access Med Plus Officials and Staff
- Obtaining a File of Eligible Women Members
- Obtaining Claims Data File on Screening Mammograms Performed on Access Med Plus Women ≥ 40 Years Old within the Previous 12 Months
- Focus Group Discussion of Low Income Women as Baseline for Knowledge and Attitudes about Breast Cancer Screening
- Training Sessions with Community Outreach Health Workers
- Implementation of Baseline Survey
- Analysis of the Survey Process
- Analysis of the Survey Results

Table 1

SURVEY EFFORT SUMMARY

Total Atte	empts	155	114	149	418
Total Cor	npleted Surveys	37	30	52	119
Total Uns	successful Attempts	118	84	97	299
Reas	ons:				
	a. No one at home	64	31	49	144
	b. Moved	29	24	19	72
	c. Refused	8	14	16	38
	d. No Physical Adress	16	5	9	30
	e. Language Barriers	0	1	3	4
	f. Miscellaneous/Other	1	9	1	11
	g. Total (a-f)	118	84	97	299

Table 2

TOTAL COMPLETED SURVEYS

Group I	People 37 0	Attempts 37 0
Total	37	37
Group II	People 29 1	Attempts 29 3
Total	30	32
Group III	People 48	Attempts 48
	40 4	15
Total	52	63

Group I: It took 37 attempts to reach 37 people.Group II: It took 32 attempts to reach 30 people.Group III: It took 63 attempts to reach 52 people.

TOTAL UNSUCCESSFUL ATTEMPTS

	Group	Idn	Group		Group III	
	People	People Attempts	Peo	Attempts	People	Attempts
No one at home	25	64	13	31	25	49
Moved	16	29	12	24	13	19
Refused	9	8	4	41	13	16
No Physical Address	12	16	4	2	9	6
Language Barriers	0	0	_	-	က	က
Miscellaneous/Other	_	_	22	6	~	_
Total	09	118	49	84	61	26

SURVEY REPORT

是是一个人,不是一个人,也是	Grou	_ 0	Group		Group III	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Women	Attempts	Women	Attempts	Women	Attempts
Sample Size	190		182		195	
a. Successful Surveys	37	37	30	32	52	63
D. Olisuccessiul Surveys Total (a+b)	26	2 - 2	70	4	<u> </u>	9/
No One At Home	25	64	13	31	25	49
Moved	16	29	12	24	13	19
Refused	9	∞	41	4	13	16
No Physical Address	12	16	4	S	9	o
Language Barriers	0	0	_	_	က	က
Miscellaneous/Other	_	_	2	6	—	_
Total Unsuccessful	09	8	64		9	6
					2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	

Table 5

Members having Telephone

	· · · · ·	Dav	idson Cou	ınty		Others	counties	
	Size #	# Listed Phone	% Listed Phone	Valid Phone	% Valid Phone	Size #	Listed Phone	% Listed Phone
Group I	190	67	35%	25	13%	70	26	37%
Group II	182	68	37%	24	13%	77	28	36%
Group III	195	65	33%	35	18%	66	28	42%
Total	567	200	35%	84	15%	213	82	38%

Questionnaires

Breast Cancer Screening in A Managed Care Population

A Survey of Knowledge, Attitudes and Practices (KAP)

Questionnaire

Meharry Medical College

1996

Breast Cancer Screening in A Managed Care Population A Survey of Knowledge, Attitudes and Practices (KAP)

Code Number:	A-170	
Date of Interview (MM/DD/YY):		
Name:		
Address:		
Telephone number (Day time):		
(Evening time):		

START	TIME:	
--------------	-------	--

A. General Information

First, I would like to ask you some general questions.

A 1.	What month, day and year were you born?			- 27.0
		MM	DD	YY
		DK		97 97 97
		RF		99 99 99
A2.	How many people in your family (household)?	Number_		
	In your family, how many adults age 18 or older?	Number_		
	In your family, how many children under age 18?	Number_		
A3.	Do you consider yourself white, black or other?	White		1
110.	_ o			2
		Other(Spe	cify)	
A 4.	What was the highest grade of			
	school you completed?	Highest g	rade completed	d
A 5.	Are you ?	Married		1
				2
		Divorced.		3
				4
		Separated		5
A 6.	What is your family's total annual income?			1
		\$5,000\$	10,000	2
			•	3
				4
		More than	ı \$25,000	5
		RF		9

B. Health Knowledge, Attitudes and Exams

Now, I am asking you some questions about your health knowledge, attitudes and exams.

B1.	How would you say your health is in general?	Poor 1 Fair 2 Good 3 Excellent 4 RF 9
B2.	How would you say your health is compared to other women who are close to you in age?	Much worse. 1 Worse. 2 Same. 3 Better. 4 Much better. 5 RF. 9
B3.	How serious do you think breast cancer is as a health problem for women?	Not so serious1Somewhat serious2Very serious3RF9
B4.	Have you had a general physical exam in the past three years (check up)?	Yes. 1 No. 2 RF. 9
B5.	Do you smoke?	Yes 1 No 2 RF 9

C. Breast Cancer History

C 1.	Is there anyone in your family who has had	Yes	
	any type of cancer	No	2
	v	DK	3
		RF	
	What type?		
C2.	Are there any female relatives of yours	Mother	1
	who ever had breast cancer? Female relatives	Sister(s)	2
	include your mother, sisters, daughters,	Daughter(s)	
	grandmother and aunts.	Grandmother	
	_	Aunt(s)	5
		None	
		DK	
		RF	
C3.	Have you ever had breast cancer?	Yes	1
	•	No	
		RF	
C4.	Have you ever been told by a doctor	Yes	1
	that you had some kind of breast condition,	No	
	but that it was not breast cancer?	RF	

D. Breast Cancer Screening Knowledge and Attitudes

D1.	In your opinion, how likely is it that you will get breast cancer in your lifetime?	Very likely1Somewhat likely2Somewhat unlikely3Very unlikely4DK7RF9
D2.	Can you name any examinations that can be done to find breast cancer in its very early stage? (DO NOT READ. CHECK ALL MENTIONED. AFTER RESPONDENTS GIVE THEIR ANSWERS, ASK, "ANY OTHERS?")	Women examine their own breasts1 Doctors or nurses do the exam
D3.	What do you think are some warning signs or symptoms of breast cancer? (DO NOT READ. CHECK ALL MENTIONED. AFTER RESPONDENTS GIVE THEIR ANSWERS, ASK, "ANY OTHERS?")	Lumps in breast
D4.	Do you know how to examine (to check) your breasts for lumps? (If "NO", SKIP TO D7) or TO D6	Yes 1 No 2 RF 9
D 5.	Who taught you how to exam your breasts? (CHECK ALL MENTIONED)	Doctor 1 Nurse 2 Other health professional 3 Mother 4 Friend 5 Sister or other relative 6 Learned in class or meeting 7 Read in a book, magazine, etc 8 Television 9 Other (Specify)

a woman should examine her breasts? (RECORD THE CLOSEST CHOICE) Monthly. 3 Weekly. 4 Daily. 5 RE. 9 D7. Women have many reasons for not examining their breasts. What would you say are the reasons they do not examine (check) theirs? (DO NOT READ. CHECK ALL MENTIONED. AFTER RESPONDENTS GIVE THEIR ANSWERS, ASK, "ANY OTHERS?") D8. How much have you heard about current treatment allowing the doctor to remove only the part of the breast that has the cancer if it is detected very early? D9. How much have you heard about a clinical breast exam which is when the breast is felt for lumps by a doctor, nurse or medical assistant? D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) Weekly. 4 Doctor or nurse does it. 1 Husband or partner does it. 2 No cancer in the family. 3 Afraid of what I might find. 4 Doctor said not necessary. 5 I couldn't find anything. 6 Can't remember to do it. 7 Just don't do it. 8 Don't know how to do.it. 9 Other (Specify) RE. 99 D9. How much have you heard about a clinical breast exam which is when the breast is felt for lumps by a doctor, nurse or medical assistant? Great deal. 4 RF. 9 D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) Weekly. 1 About how often should a woman at your age have a clinical breast exam? Only when there is a problem. 5 Only when there is a problem. 5 Only when a doctor/nurse recommends. 6 DK. 7 RF. 9	D6.	How often do you think	Whenever she tthinks about it	1
(RECORD THE CLOSEST CHOICE) Monthly		•	Yearly	2
D7. Women have many reasons for not examining their breasts. What would you say are the reasons they do not examine (check) theirs? (DO NOT READ. CHECK ALL MENTIONED. AFTER RESPONDENTS GIVE THEIR ANSWERS, ASK, "ANY OTHERS?") D8. How much have you heard about current treatment allowing the doctor to remove only the part of the breast that has the cancer if it is detected very early? D9. How much have you heard about a clinical breast exam which is when the breast is felt for lumps by a doctor, nurse or medical assistant? D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) D7. Women have many reasons for not examine the acamine the acamine the reasons in the treatment allowing the doctor to remove only the part of the breast fair amount a clinical breast exam which is when the breast is felt for lumps by a doctor, nurse or medical assistant? D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) Women the breast is a poolem of the reasons in the family. The part of t		(RECORD THE CLOSEST CHOICE)	Monthly	3
Daily			Weekly	4
D7. Women have many reasons for not examining their breasts. What would you say are the reasons they do not examine (check) theirs? (D0 NOT READ. CHECK ALL MENTIONED. AFTER RESPONDENTS GIVE THEIR ANSWERS, ASK, "ANY OTHERS?") D8. How much have you heard about current treatment allowing the doctor to remove only the part of the breast that has the cancer if it is detected very early? D9. How much have you heard about a clinical breast exam which is when the breast is felt for lumps by a doctor, nurse or medical assistant? D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) RF				
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(DO NOT READ. CHECK ALL MENTIONED. AFTER RESPONDENTS GIVE THEIR ANSWERS, ASK, "ANY OTHERS?") Don't know how to do.it			Afraid of what I might find	4
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to remove only the part of the breast that has the cancer if it is detected very early? D9. How much have you heard about a clinical breast exam which is when the breast is felt for lumps by a doctor, nurse or medical assistant? D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) To remove only the breast sam and that has the cancer if it is detected very early? Fair amount 1 Oreat deal 2 RF 9 D10. About how often should a woman wonthly 1 About how often should a woman at your age have a clinical breast exam? Only when there is a problem 5 Only when a doctor/nurse recommends 6 DK 7			Very little	2
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by a doctor, nurse or medical assistant? Creat deal			Very little	2
D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) Weekly		when the breast is felt for lumps	Fair amount	3
D10. About how often should a woman at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) Weekly			Great deal	4
at your age have a clinical breast exam? (RECORD THE CLOSEST CHOICE) Yearly		•	RF	9
(RECORD THE CLOSEST CHOICE) Yearly	D10.	About how often should a woman	Weekly	1
Less than once a year		at your age have a clinical breast exam?	Monthly	2
Only when there is a problem5 Only when a doctor/nurse recommends		(RECORD THE CLOSEST CHOICE)	Yearly	3
Only when a doctor/nurse recommends		,	Less than once a year	4
recommends			Only when there is a problem	5
recommends				
				6
RF9			DK	7
			RF	9

D11.	How much have you heard about a mammogram which is when an X-ray is taken only of the breast by a machine that presses the breast while the picture is taken)?	Nothing at all 1 Very little 2 Fair Amount 3 Great Deal 4 RF 9
D12.	Women have many reasons for not having mammogram. What would you say are their reasons for not examining (check) their breasts?	Procrastination 1 Don't know I should 2 Not needed 3 Cost too much 4
	for not examining (check) their breasts? (DO NOT READ. CHECK ALL MENTIONED. AFTER RESPONDENTS GIVE THEIR ANSWERS, ASK, "ANY OTHERS?")	Cost too much
D13.	About how often should a woman at your age have a mammogram? (RECORD THE CLOSEST CHOICE)	Weekly

E. Clinical Breast Exam

ne last year1	When did you have your last clinical breast exam?	E1.	
1 and 2 years ago2			
2 and 5 years ago3	IF NEVER SKIP TO F1		
an 5 years ago			
5			
g			
1	Have you ever had a breast exam	E2.	
2	where the results were not normal?		
g	"Not normal" means positive problems found in the breast exam.		
1	. Did your doctor ask you to have additional tests	E3.	
2	because your results were not normal?		
9	(If NO, skip to F1)		
1	Did you have any additional tests?	E4.	
2			
9			
1	. Did you have any surgery or other treatment	E5.	
2			
9			
1	Did the breast exam, additional tests, surgery	E6.	
2	or other treatment indicate		
9	that you had breast cancer?		
	If yes, in which year?		
Parameter Control	and in which hospital?		
	that you had breast cancer? If yes, in which year?		

F. Mammogram

F1.	Has a doctor or nurse ever recommended	Yes	1
	that you have a mammogram?	No	2
	(IF NO, SKIP TO G1)	RF	9
F2.	Have you ever had a mammogram?	Yes	1
	(IF NO, SKIP TO G1)	No	2
		RF	9
F3.	When did you have your last mammogram?	Within the last year	1
		Between 1 and 2 years ago	2
		Between 2 and 5 years ago	
		More than 5 years ago	
		DK	
		RF	
F4.	Have you ever had a mammogram	Yes.	
• ••	where the results were not normal?	No	
	"Not normal" means positive problems	RF	
	found in the breast exam. (If NO, skip to G1)		
F5.	Did your doctor ask you to have additional tests	Yes	1
	because your results were not normal?	No	2
	·	RF	9
F6.	Did you have any additional tests?	Yes	1
		No	2
		RF	9
F7.	Did you have any surgery or other treatment?	Yes	1
		No	2
		RF	9
F8.	Did the mammogram, additional tests, surgery	Yes	1
	or other treatment indicate	No	2
	that you had breast cancer?	RF	9
	If yes, in which year?	Year	
	and in which hospital?	Hospital	

G. Knowledge About Breast Cancer

I am going to read a series of statements about breast cancer. Please tell me whether you strongly agree, agree, disagree, strongly disagree or undecided with each statement.

G1.	Many women are concerned about the possibility of getting breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G2.	Women over 50 are more likely to get breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G3.	Women whose mothers or sisters have had breast cancer are most likely to get breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G4.	Women under 50 are more likely to get breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G5.	Any woman is likely to get breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G6.	If breast cancer is found and treated early it can be cured.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5

G7.	Women who have their first child after age of 30 are more likely to get breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G8.	If a woman has a lump in her breast, it is almost always breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G 9.	I worry about getting breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G 10.	By doing a self breast exam often, it is possible to find breast cancer in time to cure it.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5
G11.	Women who do not have children are more likely to get breast cancer.	Strongly agree1Agree2Disagree3Strongly disagree4Undecided5

H. Barriers to Cancer Screening

For each statement, check the one answer that comes closest to the way you feel

		Strongly agree	Agree	Disagree	Strongly Disagree
1.	Cancer treatment would be worth going through if there was a small chance that it would save my life	4	3	2	1
2.	There is very little a person can do to reduce his/her chances of getting cancer.	4	3	2	1
3.	Having a check-up once a year is worth the time and effort.	4	3	2	1
4.	I have doubts about some of the things doctors say they can do for you.	4	3	2	1
5.	I am aware of the health services in my community.	4	3	2	1
6.	I would have a mammogram (breast x-ray) only if my doctor recommended it.	4	3	2	1
7.	I would seek more medical services if they were not expensive.	4	3	2	1
8.	I am usually afraid of what the doctor will find.	4	3	2	1
9.	Breast exams embarrass me.	4	3	2	1
10.	Exposure to radiation during a mammogram concerns me.	4	3	2	1
11.	I appreciate reminders about my medical appointments.	4	3	2	1

		Strongly agree	Agree	Disagree	Strongly Disagree
12	Not having transportation makes it difficult for me to keep medical appointments.	4	3	2	1
13.	The cost of medical care keeps me from going to the doctor.	4	3	2	1
14.	It takes a long time to get an appointment to see a doctor.	4	3	2	1
15.	Doctors make me feel uncomfortable.	4	3	2	1
16.	Getting the time off work makes it difficult for me to go to the doctor.	4	3	2	1
17.	The chance of finding something wrong keeps me from asking for medical advice.	4	3	2	1
18.	Doctors take their time when explaining medical procedure to me to make sure I understand.	4	3	2	1
19.	Instead of going to the doctor when I do not feel well, I just take it easy for a while.	4	3	2	1
20.	Privacy is important to me during my visit to health care facilities.	4	3	2	1
21.	I am afraid of the pain I may feel when I visit a health care facility.	4	3	2	1

END

END TIME: _______

INTERVIEWER: _____

B. ASK RESPONDENT TO SIGN PERMISSION TO ABSTRACT MEDICAL RECORDS FORMS.